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Project:

Soil Testing Website

Automated Tests:

We are using the PHP unit test framework “PHPUnit” to check that the registration validation process is working correctly, checking for empty fields, password and confirm password fields not matching, and that correct input is considered correct.

To run the tests:

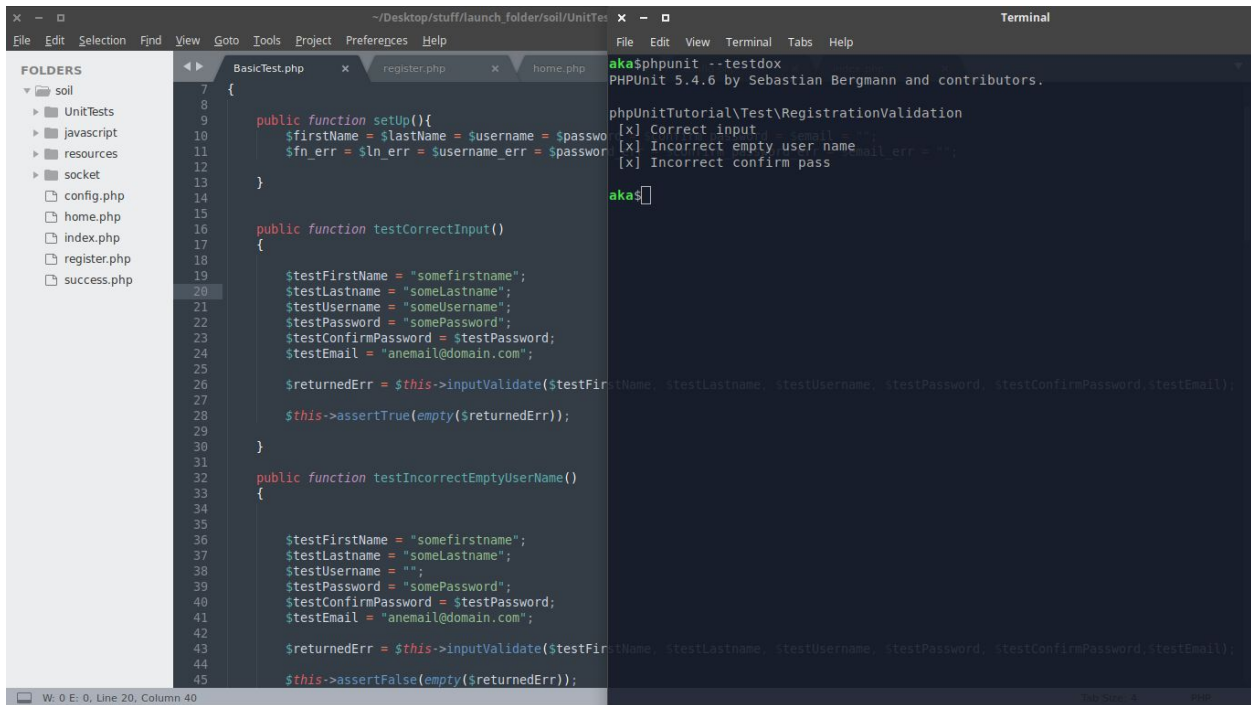
1. Open the terminal
2. Go the UnitTest directory: “/soil/UnitTests”
3. Enter: “phpunit”

User Acceptance Tests:

We are testing the data validation using the “inputValidate” function.

1. testCorrectInput
 - a. Input: Correct values for all the fields
 - b. Expected Output: Empty error string “err”.
2. testIncorrectEmptyUserName
 - a. Input: Empty string passed as a username
 - b. Expected Output: Non-Empty error “err”
3. testIncorrectConfirmPass
 - a. Input: Password field and confirm password field unequal
 - b. Expected Output: Non-empty error “err”.

Output:



The screenshot shows a code editor with a file explorer on the left and a terminal on the right. The file explorer shows a folder named 'soil' containing subfolders 'UnitTests', 'javascript', 'resources', and 'socket', and files 'config.php', 'home.php', 'index.php', 'register.php', and 'success.php'. The code editor displays the 'BasicTest.php' file, which contains the following PHP code:

```
7 {
8
9
10 public function setUp(){
11     $firstName = $lastName = $username = $password = $confirmPassword = $email = "";
12     $fn_err = $ln_err = $userr_err = $psw_err = $cpw_err = $eml_err = "";
13 }
14
15
16 public function testCorrectInput()
17 {
18
19     $testFirstName = "somefirstname";
20     $testLastName = "somelastname";
21     $testUsername = "someusername";
22     $testPassword = "somepassword";
23     $testConfirmPassword = $testPassword;
24     $testEmail = "anemail@domain.com";
25
26     $returnedErr = $this->inputValidate($testFirstName, $testLastName, $testUsername, $testPassword, $testConfirmPassword, $testEmail);
27
28     $this->assertTrue(empty($returnedErr));
29
30 }
31
32 public function testIncorrectEmptyUserName()
33 {
34
35     $testFirstName = "somefirstname";
36     $testLastName = "somelastname";
37     $testUsername = "";
38     $testPassword = "somepassword";
39     $testConfirmPassword = $testPassword;
40     $testEmail = "anemail@domain.com";
41
42     $returnedErr = $this->inputValidate($testFirstName, $testLastName, $testUsername, $testPassword, $testConfirmPassword, $testEmail);
43
44     $this->assertFalse(empty($returnedErr));
45 }
```

The terminal shows the output of the PHPUnit test run:

```
akaspHPUnit --testdox
PHPUnit 5.4.6 by Sebastian Bergmann and contributors.

phpUnitTutorial\Test\RegistrationValidation
[X] Correct input
[X] Incorrect empty user name
[X] Incorrect confirm pass

akasp
```